

Patent Abstracts of Japan

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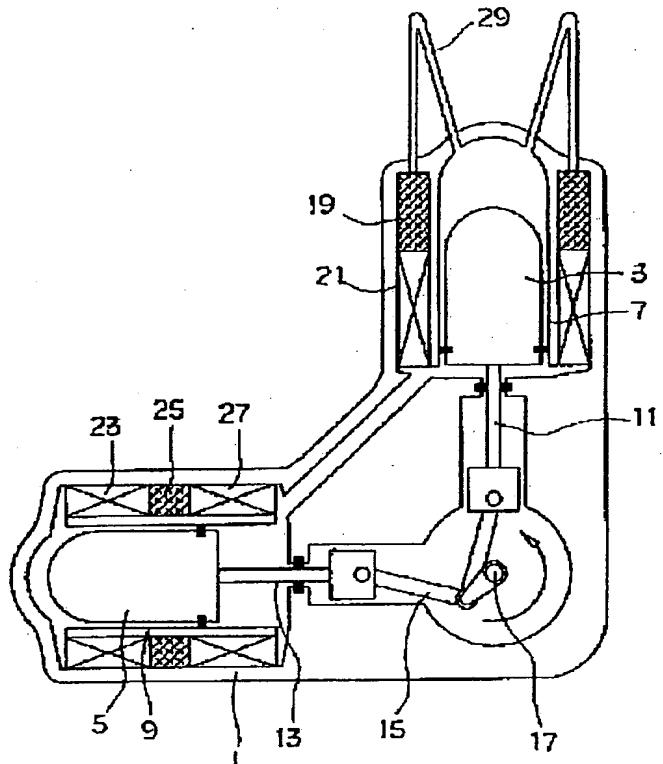
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TITLE : EXTERNAL COMBUSTION ENGINE



ABSTRACT : PURPOSE: To prevent deterioration of engine efficiency by preventing leakage of operation medium generated at a gap between a regenerator and a housing, and reducing thermal loss caused thereby.

CONSTITUTION: Pistons 3, 5 are movably arranged in cylinders 7, 9 sealing operation fluid therein and housed in a housing 1. An external combustion engine has regenerators 19, 25 arranged between an expansion chamber and a compression chamber determined by the piston 3, 5, and heat exchangers 21, 23, 27, 29. The regenerators 19, 25 are prepared by scattering and connecting a plurality of mesh-like heat accumulation bodies to form ring-like or cylindrical sintered products. They are sintered products each having a specified shape by scattering and connecting foamed metal, metal balls, metal fibers, metal short strips. Such regenerators 19, 25 are directly assembled in the housing. Low heat conductive ratio material such as thermosetting resin or ceramic is coated on an outer peripheral surface of the heat accumulation body of the regenerator and an inner wall surface of the housing in which the regenerators are assembled.

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